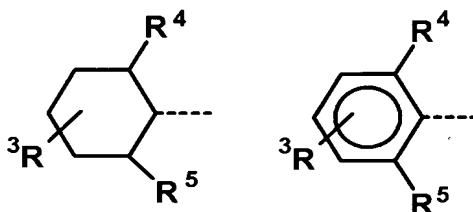


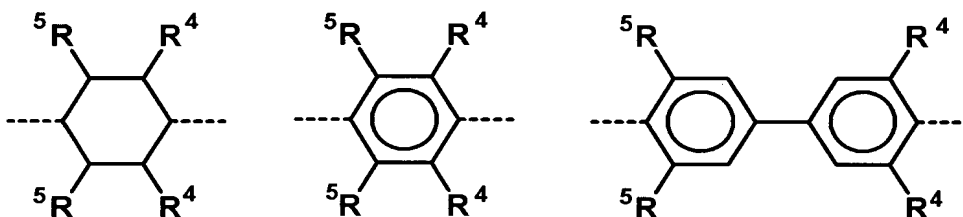
n is 1 or 2,

on the condition that

for  $n = 1$   $R^1$  has the meaning



and for  $n = 2$   $R^1$  has the meaning



$R^2$  is a  $C_1$  to  $C_{12}$  alkylene radical,  $C_4$ - $C_8$  cycloalkylene radical or  $C_7$  to  $C_{15}$  alkylene phenylene radical;

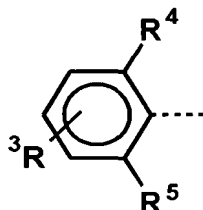
$R^3$  is hydrogen, a  $C_1$  to  $C_5$  alkyl radical or a  $C_1$  to  $C_5$  O-alkyl radical; and

$R^4, R^5$  independently of each other, each stand for a  $C_1$  to  $C_5$  alkyl radical or a  $C_1$  to  $C_5$  O-alkyl radical.

2. (Currently Amended) Acrylic ester phosphonic acid according to claim 1, **characterized in that** wherein one or more of the variables of Formula (I), independently of each other, have the following meaning:

n = 1,

R<sup>1</sup> =



R<sup>2</sup> = a C<sub>1</sub> to C<sub>6</sub> alkylene radical;

R<sup>3</sup> = hydrogen, a C<sub>1</sub> to C<sub>3</sub> alkyl radical; and

R<sup>4</sup>, R<sup>5</sup> = independently of each other, a C<sub>1</sub> to C<sub>3</sub> alkyl radical.

3. (Currently Amended) Acrylic ester phosphonic acid according to claim 1 ~~or 2~~, ~~characterized in that~~ wherein the radicals R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and/or R<sup>5</sup> are unsubstituted or substituted by one or more substituents selected from the group Cl, Br, CH<sub>3</sub>O, OH, COOH, CN, =O, =S, =NR<sup>6</sup> or -NR<sup>7</sup>-CO-C(=CH<sub>2</sub>)CH<sub>2</sub>-Y-R<sup>8</sup>-PO(OH)<sub>2</sub>, wherein R<sup>6</sup> and R<sup>7</sup>, independently of each other, each stand for hydrogen, a straight-chained or branched C<sub>1</sub> to C<sub>10</sub> alkyl or C<sub>6</sub> to C<sub>10</sub> aryl radical and R<sup>8</sup> is a straight-chained or branched C<sub>1</sub> to C<sub>10</sub> alkylene or C<sub>6</sub> to C<sub>14</sub> arylene radical.

4. (Currently Amended) Composition, ~~characterized in that it contains~~ containing an acrylic ester phosphonic acid according to ~~one of claims 1 to 3~~ claim 1.

5. (Currently Amended) Composition according to claim 4, further comprising ~~characterized in that it additionally contains~~ a radically polymerizable monomer.

6. (Currently Amended) Composition according to claim 5, ~~characterized in that it contains~~ containing an acrylamide and/or a hydroxyalkyl acrylamide as a radically polymerizable monomer.

7. (Currently Amended) Composition according to claim 5, containing ~~or 6~~, ~~characterized in that it contains~~ a monofunctional and/or a multifunctional radically polymerizable monomer.

8. (Currently Amended) Composition according to claim 7, ~~characterized in that it contains~~ containing as a monofunctional radically polymerizable monomer one or more hydrolysis-stable mono(meth)acrylates, mesityl methacrylate, one or more 2-(alkoxymethyl)acrylic acids, 2-(ethoxymethyl)acrylic acid, 2-(hydroxymethyl)acrylic acid, one or more N-mono- or N-disubstituted acrylamides, N-ethylacrylamide, N,N-dimethacrylamide, N-(2-hydroxyethyl)acrylamide, N-(2-hydroxyethyl)-N-methylacrylamide, one or more N-monosubstituted methacrylamides, N-ethylmethacrylamide, N-(2-hydroxyethyl)methacrylamide, N-vinylpyrrolidone, allyl ether or a mixture of two or more of these monomers.

9. (Currently Amended) Composition according to claim 7, ~~containing or 8, characterized in that it contains~~ as a multifunctional radically polymerizable monomer one or more urethanes from 2-(hydroxymethyl)acrylic acid and diisocyanates, 2,2,4-trimethylhexamethylene diisocyanate, isophorone diisocyanate, one or more crosslinking pyrrolidones, 1,6-bis(3-vinyl-2-pyrrolidonyl)-hexane, one or more bisacrylamides, methylene bisacrylamide, ethylene bisacrylamide, one or more bis(meth)acrylamides, N,N'-diethyl-1,3-bis(acrylamido)-propane, 1,3-bis(methacrylamido)-propane, 1,4-bis(acrylamido)-butane, 1,4-bis(acryloyl)-piperazine or a mixture of two or more of these monomers.

10. (Currently Amended) Composition according to ~~one of claims 4 to 9, characterized in that it additionally contains~~ claim 9, further comprising an initiator for radical polymerization.

11. (Currently Amended) Composition according to ~~one of claims 4 to 10, characterized in that it additionally contains~~ claim 4, further containing a filler.

12. (Currently Amended) Composition according to ~~one of claims 4 to 10, characterized in that it additionally contains~~ claim 4, further comprising a solvent.

13. (Currently Amended) Composition according to ~~one of claims 4 to 12, characterized in that it additionally contains~~ claim 4, further comprising a (meth)acrylamidoalkyl dihydrogen phosphate.

14. (Currently Amended) Composition according to claim 4, containing one of claims 4 to 13, characterized in that it contains

- a) 0.5 to 70 wt.-% acrylic ester phosphonic acid according to claim 1 or 2;
- b) 0.01 to 15 wt.-% initiator for radical polymerization;
- c) 0 to 80 wt.-% radically polymerizable monomer;
- d) 0 to 95 wt.-% solvent;
- e) 0 to 50 wt.-%, (meth)acrylamidoalkyl dihydrogen phosphate,  
and/or
- f) 0 to 75 wt.-% filler.

15. (Currently Amended) ~~Use of a composition according to one of claims 4 to 14~~  
as A dental material comprising a composition according to claim 4.

16. (Currently Amended) ~~Use according to claim 15 as A~~ cement or adhesive  
comprising a composition according to claim 4.

17. (Currently Amended) ~~Use of an acrylic ester phosphonic acid according to one of claims 1 to 3 for the preparation of a~~ A dental material comprising an acrylic ester phosphonic acid according to claim 1.